

TP-00510

TP-00510

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

## DESCRIPTIVE REPORT

Type of Survey ..... Shoreline  
Job No. .... CM-7305 ..... Map No. TP-00510  
Classification No. .... Edition No. ...J.....  
Field Edited Map

## LOCALITY

State ..... North Carolina  
Cape Hatteras to  
General Locality ..... Cape Lookout  
Locality ..Ocracoke..Island.....

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19 74 TO 19 75

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## REGISTRY IN ARCHIVES

DATE .....

## DESCRIPTIVE REPORT - DATA RECORD

☒ ORIGINAL

MAP EDITION NO. (1)

☐ RESURVEY

MAP CLASS Final (F.E.)

☐ REVISEDJOB ~~PHX~~ CM-7305

## PHOTOGRAMMETRIC OFFICE

Coastal Mapping Division, Norfolk, VA

## OFFICER-IN-CHARGE

Jeffrey G. Carlen, Cdr.

## LAST PRECEDING MAP EDITION

TYPE OF SURVEY

JOB PH- \_\_\_\_\_

☐ ORIGINAL

MAP CLASS \_\_\_\_\_

☐ RESURVEY

SURVEY DATES:

☐ REVISED

19\_\_ TO 19\_\_

## I. INSTRUCTIONS DATED

## 1. OFFICE

Aerotriangulation Sept. 3, 1974  
Compilation Nov. 6, 1974

## 2. FIELD

Jan. 10, 1974  
March 5, 1975

## II. DATUMS

## 1. HORIZONTAL:

☒ 1927 NORTH AMERICAN

OTHER (Specify)

## 2. VERTICAL:

☒ MEAN HIGH-WATER  
☒ MEAN LOW-WATER  
☐ MEAN LOWER LOW-WATER  
☐ MEAN SEA LEVEL

OTHER (Specify)

## 3. MAP PROJECTION

*Lambert Conformal  
Polyconic*

## 4. GRID(S)

STATE

ZONE

North Carolina

## 5. SCALE

1:20,000

STATE

ZONE

## III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	M. McGinley	Oct., 1974
METHOD: Analytic	LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	R. Robertson	Oct., 1974
METHOD: Calcomp	CHECKED BY		
3. STEREOSCOPIC INSTRUMENT	PLANIMETRY BY	L.O. Neterer	Feb., 1975
COMPILATION	CHECKED BY	G. Vanderhaven	Feb., 1975
INSTRUMENT: Wild B-8	CONTOURS BY	NA	
SCALE: 1:15,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	F. Margiotta	Feb., 1975
	CHECKED BY	A.L. Shands	Feb., 1975
	CONTOURS BY	NA	
METHOD: Smooth drafted	CHECKED BY	NA	
	HYDRO SUPPORT DATA BY	NA	
SCALE: 1:20,000	CHECKED BY	NA	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	A.L. Shands	Feb., 1975
	BY	I. Perkinson	Apr., 1975
6. APPLICATION OF FIELD EDIT DATA	CHECKED BY	F. Margiotta	May, 1975
	BY	F. Margiotta	May, 1975
7. COMPILATION SECTION REVIEW	BY	A.L. Shands	Oct., 1976
8. FINAL REVIEW	BY	A.L. Shands	Jan., 1977
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY		
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R.T. CATR	MAR. 1977

NOAA FORM 76-36B  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYTP-00510  
COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E" & RC-10 "C"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				Eastern	
				75th	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
74E(C)(1)4415 - 4421	4/1/74	13:18	1:30,000	1.5 ft. above MLW	
* 74C(C)(1)8814 - 8817	4/1/74	14:20	1:60,000	+0.2 ft. of MHW	
* 74C(C)(1)8887 - 8890	4/3/74	10:15	1:60,000	+0.2 ft. of MLW	

## REMARKS

\*Tide coordinated photographs.

## 2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled graphically from the above listed tide coordinated photographs taken at MHW.

## 3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

The mean low water line was compiled graphically from the above listed tide coordinated photographs taken at MLW.

## 4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

## 5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No Survey	TP-00508	No Survey	TP-00509

## REMARKS

NOAA FORM 76-36C  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

TP-00510

## HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Tibbetts	Aug. 1974
2. HORIZONTAL CONTROL	RECOVERED BY R. Tibbetts	Aug. 1974
	ESTABLISHED BY R. Tibbetts	Aug. 1974
	PRE-MARKED OR IDENTIFIED BY R. Tibbetts	Aug. 1974
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
74E(C)(1) 4416	KING, 1962		
74E(C)(1) 4420	MP 70.5(N.P.S.), 1962		
74C(C)(1) 4420	PANEL NEAR "GRASS, 1960," 1975		
3. PHOTO NUMBERS (Clarification of details) None			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) 1 Form 738 Traverse Computations 3 Form 152 Control Station Identification 3 Form 526 Recovery Note			

TP-00510

## HISTORY OF FIELD OPERATIONS

I. <input type="checkbox"/> FIELD INSPECTION OPERATION				<input checked="" type="checkbox"/> FIELD EDIT OPERATION			
OPERATION			NAME		DATE		
1. CHIEF OF FIELD PARTY			R.S. Tibbetts		Apr., 1975		
2. HORIZONTAL CONTROL			RECOVERED BY		None		
			ESTABLISHED BY		None		
			PRE-MARKED OR IDENTIFIED BY		None		
3. VERTICAL CONTROL			RECOVERED BY		NA		
			ESTABLISHED BY		NA		
			PRE-MARKED OR IDENTIFIED BY		NA		
4. LANDMARKS AND AIDS TO NAVIGATION			RECOVERED (Triangulation Stations) BY		None		
			LOCATED (Field Methods) BY		None		
			IDENTIFIED BY		None		
5. GEOGRAPHIC NAMES INVESTIGATION			TYPE OF INVESTIGATION				
			<input type="checkbox"/> COMPLETE		BY		
			<input type="checkbox"/> SPECIFIC NAMES ONLY				
			<input checked="" type="checkbox"/> NO INVESTIGATION				
6. PHOTO INSPECTION			CLARIFICATION OF DETAILS BY		None		
7. BOUNDARIES AND LIMITS			SURVEYED OR IDENTIFIED BY		NA		
II. SOURCE DATA							
1. HORIZONTAL CONTROL IDENTIFIED				2. VERTICAL CONTROL IDENTIFIED			
None				None			
PHOTO NUMBER	STATION NAME			PHOTO NUMBER	STATION DESIGNATION		
3. PHOTO NUMBERS (Clarification of details)							
None							
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED							
None							
PHOTO NUMBER	OBJECT NAME			PHOTO NUMBER	OBJECT NAME		
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE				6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE			
7. SUPPLEMENTAL MAPS AND PLANS							
None							
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)							
1 Field Edit Ozalid 1 Field Edit Report							

NOAA FORM 76-36D  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-00510  
RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	Feb., 1975	Class III Manuscript	3/7/75	2/24/75
Field edit applied Compilation complete	Apr., 1975	Class I Manuscript	5/12/75	
Final Review	Oct., 1976		2/8/77	

## II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH None

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

## III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☐ COMPUTER READOUTS.  
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.  
 3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.  
 ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: \_\_\_\_\_

## IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	



## SUMMARY TO ACCOMPANY

## DESCRIPTIVE REPORTS

TP-00507 thru TP-00514

Project 7305 is the most northerly of several projects which make up the Southern Coastal Plains Expedition (SCOPE). It consists of eight (8) 1:20,000 scale manuscripts covering the outer coastline from Cape Hatteras south to a position just north of Cape Lookout. The original instructions dated November 6, 1974 Item 5.01 called for the compilation of "standard shoreline maps". None of the manuscripts in this project can be considered "standard shoreline maps" because in each case only the outer shoreline which borders the Atlantic Ocean was delineated.

To facilitate bridging and the setting of stereo models on the Wild B-8 stereo-plotter it was necessary to fly photography at 1:15,000, 1:20,000 and 1:30,000 scales because most of the area consists of a very narrow coastal band. In addition, 1:60,000 scale tide coordinated photography was flown at mean high and mean low water from which the mean high and mean low water lines were graphically delineated. (See Item 31 of the Compilation Report). All photography was taken with the RC-8 and RC-10 cameras using color infrared film.

Field work prior to compilation consisted of pre-marking and recovery of horizontal control for bridging and the observation and recording of tide data.

Bridging was done in the Rockville office using the Wild STK-1 in October, 1974. Ratio prints of the 1:60,000 scale tide coordinated photography were ordered at that time.

Compilation was done at the Atlantic Marine Center in April, 1975. Models of the bridging photography were set on the Wild B-8 stereo-plotter from which details above the MHWL were compiled and points common to the tide coordinated ratios were dropped. The MHWL and MLWL were delineated graphically using the tide coordinated ratios supplied for that purpose.

Field edit was accomplished during February through April, 1975.

Final review was done in October, 1976 at the Atlantic Marine Center.

The original stabilene base manuscripts, each 10 minutes in latitude and 10 minutes in longitude, were forwarded to the Rockville office for reproduction of registration copies.

No field inspection report was submitted.

PHOTOGRAMMETRIC PLOT REPORT  
Job CM-7305  
Cape Hatteras to Cape Lookout  
North Carolina  
October 1974

21. Area Covered

This project covers the shoreline from Cape Lookout to just north of Cape Hatteras. Included are eight T-sheets (TP-00507 thru TP-00514). All sheets are 1:20,000 scale.

22. Method

Five strips of color IR photography with varying scales were bridged on the Wild STK-1 in order to obtain pass point positions and exact scale ratios to be used during compilation.

Strip 1 (1:15,000 scale) was adjusted on four field-identified triangulation stations with one additional triangulation station and two tie points as checks. Strip 2 (1:20,000 scale) was adjusted on five field-identified triangulation stations with three additional triangulation stations and six tie points as checks. Strip 3 (1:30,000 scale) was adjusted on three field-identified triangulation stations with one additional triangulation station and four tie points as checks. Strip 4 (1:30,000) was adjusted on four field-identified triangulation stations and one tie point with five additional triangulation stations and nine tie points as checks. Strip 5 (1:15,000 scale) was adjusted on three field identified triangulation stations and one tie point with seven additional triangulation stations and five tie points as checks. All adjustments were performed on the IBM 6600. All sheets were ruled and plotted on the Coradomat.

1:20,000 scale ratios were ordered.

23. Adequacy of Control

The horizontal control utilized in the adjustments held within National Map Accuracy.

24. Supplemental Data

Vertical control for bridging only was obtained from local USGS quads.

25. Photography

Photography was adequate as to overlap, definition, and coverage.

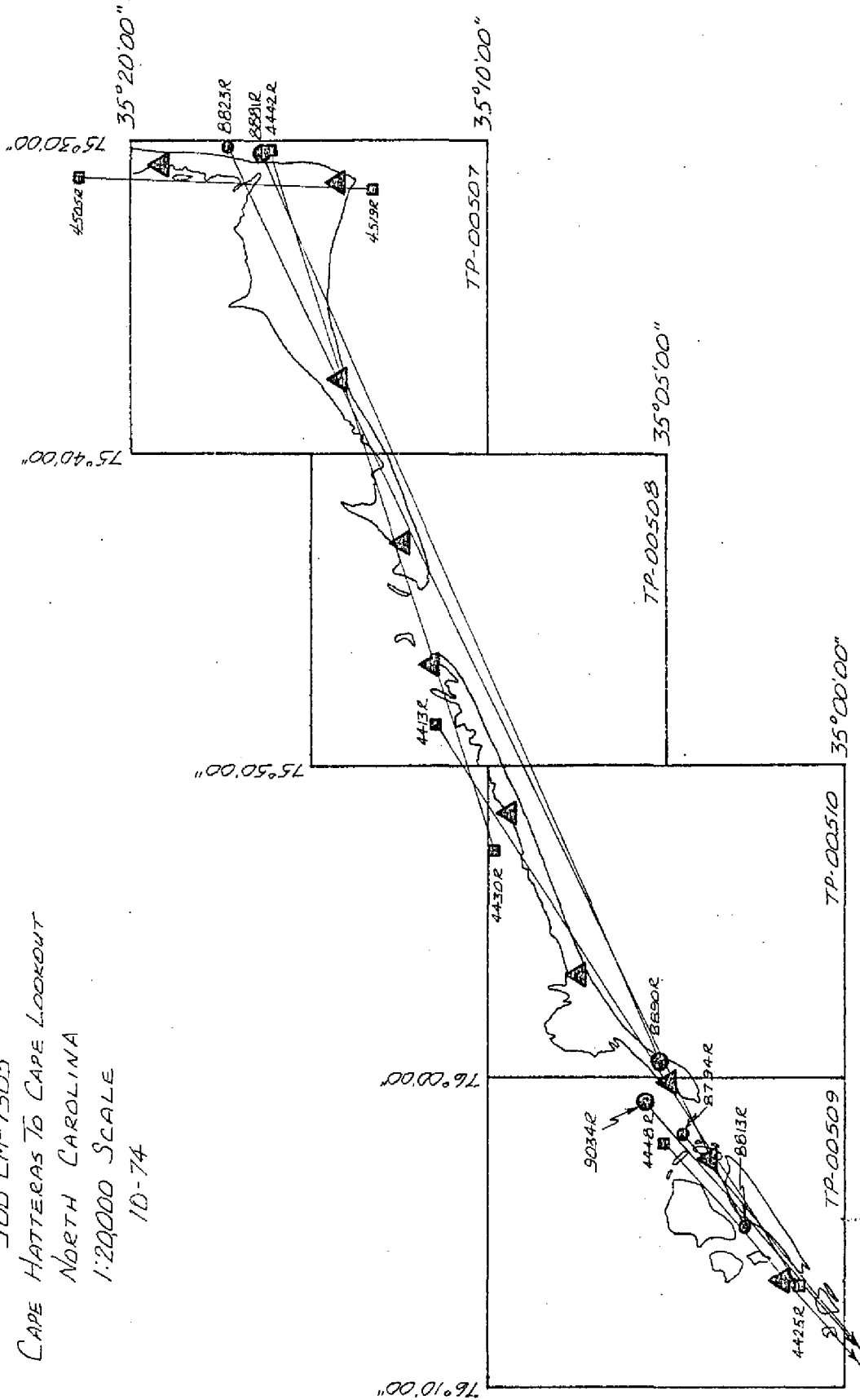
Approved by:  
*John D. Ferrow, Jr.*  
John D. Ferrow, Jr.  
Chief, Aerotriangulation Section

Submitted by:  
*Michael G. McGinley*  
Michael G. McGinley

## Note to Compiler

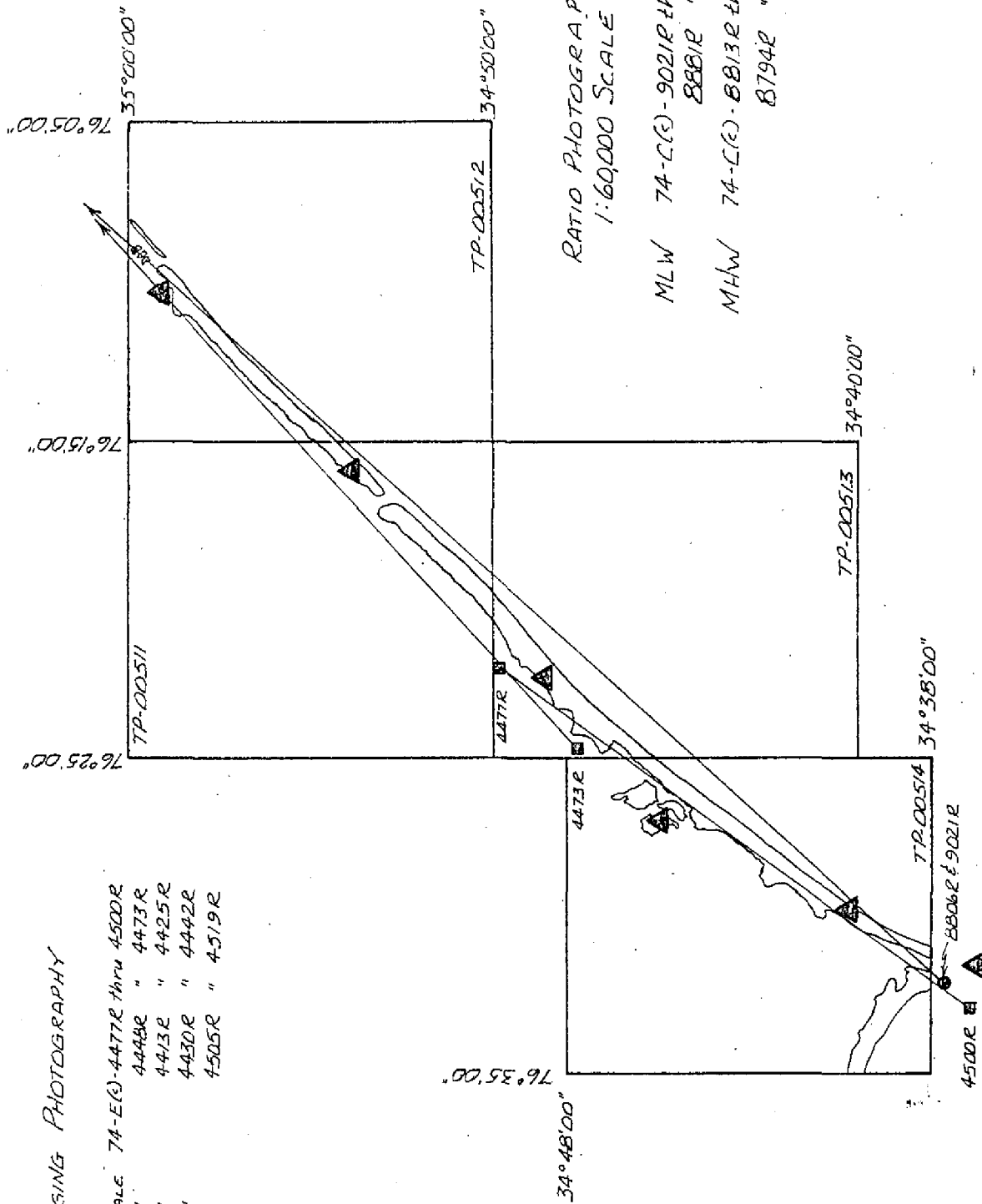
Strip 3 could not be bridged beyond model 74-E(C)-4420/4421. Image points were selected for pass points on photo 4421 to be used for scaling and orientating the photo for delineating the point of land not covered in the bridge. The image points selected are pricked on contact print 4421. A ratio photo of 4421 was ordered at 1:20,000.

JOB CM-7305  
 CAPE HATTERAS TO CAPE LOOKOUT  
 NORTH CAROLINA  
 1:20,000 SCALE  
 10-74



# BRIDGING PHOTOGRAPHY

STRIP 1 1:15000 SCALE 74-E(6)-4477R thru 4500R  
 STRIP 2 1:20000 " 4448R " 4473R  
 STRIP 3 1:30000 " 4473R " 4425R  
 STRIP 4 1:30000 " 4430R " 4442R  
 STRIP 5 1:15000 " 4505R " 4519R



RATIO PHOTOGRAPHY  
 1:60,000 SCALE

MLW 74-C(6)-9021R thru 9034R  
 8881R " 8890R  
 MHW 74-C(6)-8813R thru 8823R  
 8794R " 8806R

## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	GEOGRAPHIC POSITION		COORDINATES IN FEET		ORIGINATING ACTIVITY	
					STATE	ZONE	φ	λ	Latitude	Longitude
TP-00510	MP 70.5(N.P.S.), 1962	CM-7305	G.P. Vol. III				X=	φ 35 06 25.20873		776.9 (1072.1)
			Pg. 3075			Y=	λ 75 57 26.63884		674.6 (844.9)	
PAR, 1962			G.P. Vol. III				X=	φ 35 07 29.67078		914.4 (934.6)
			Pg. 3076			Y=	λ 75 55 24.71906		625.9 (893.3)	
HILL, 1935			G.P. Vol. I				X=	φ 35 08 03.188		98.2 (1750.8)
			Pg. 357			Y=	λ 75 54 22.316		565.0 (954.0)	
LAMB, 1935			G.P. Vol. I				X=	φ 35 08 41.789		1287.8 (561.2)
			Pg. 357			Y=	λ 75 52 44.848		1135.3 (383.5)	
KING, 1962			G.P. Vol. III				X=	φ 35 09 08.88690		273.9 (1575.1)
			Pg. 3077			Y=	λ 75 51 35.33393		894.3 (624.4)	
SAND, 1935			G.P. Vol. I				X=	φ 35 09 32.655		1006.3 (842.7)
			Pg. 357			Y=	λ 75 50 32.326		818.1 (700.4)	
PANEL NEAR "GRASS, 1960", 1974			Field Comp. Bridge Form 164, P. 3 of 5				X=	φ 499,190.23		9,190.23(809.77)
						Y=	λ 2,898,545.61		8,545.61(1,454.39)	
							X=	φ		
						Y=	λ			
							X=	φ		
						Y=	λ			
							X=	φ		
						Y=	λ			
COMPUTED BY	A.C. Rauck, Jr.			DATE 11/7/74				COMPUTATION CHECKED BY F. Margiotta		DATE 11/8/74
										DATE
LISTED BY				DATE				LISTING CHECKED BY		DATE
										DATE
HAND PLOTTING BY				DATE				HAND PLOTTING CHECKED BY		DATE
										DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

## COMPILATION REPORT

TP-00510

31. DELINEATION

The Models were set on the Wild B-8 stereoplotter using 1:30,000 scale color infrared photography. Points were dropped common to the 1:60,000 scale tide controlled color infrared photos ratioed to manuscript scale. These ratios were used to graphically compile the MHWL and MLWL. Their scales were very poor and one edge was over processed so as to render the images in that area indistinct. Coverage was adequate.

32. CONTROL

See the attached Photogrammetric Plot Report: Oct., 1974. Detail points dropped from the B-8 models were used to control the graphic delineation of the MHWL and MLWL.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are not applicable to the project. No drainage was delineated.

35. SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

The mean high water line was delineated from the photographs, listed as tide coordinate photos on Form 76-368, Item 2.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

See the attached Form 76-36b, Item #5.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with the following U.S. Geological Survey Quadrangles: Green Island, NC, scale 1:24,000, dated 1950; Howard Reef, NC, scale 1:24,000, dated 1950; Ocracoke, NC, scale 1:24,000, dated 1950. All photorevised, 1970.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey charts: 11255, scale 1:80,000, 19th edition, dated Jan. 6, 1973 and 11257, scale 1:40,000, 12th edition, dated June 24, 1972.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:



Frank Margiotto  
Cartographic Technician  
Feb. 19, 1975

Approved:

*Albert C. Rauck, Jr.*

Albert C. Rauck, Jr.  
Chief, Coastal Mapping Section, AMC

ADDENDUM TO THE COMPILATION REPORT

TP-00510

FIELD EDIT

Field Edit was adequate.

22 Oct. 1975

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

CM-7305 (Cape Hatteras to Cape Lookout, N.C.)

TP-00510

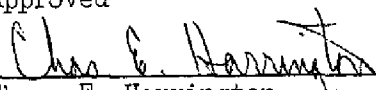
Atlantic Ocean

Ocracoke Island

Raleigh Bay

The Knoll

Approved

  
Chas. E. Harrington  
Staff Geographer--C51x2

FORM C&GS-1002  
(9-66)U.S. DEPARTMENT OF COMMERCE  
ESSA  
COAST AND GEODETIC SURVEY

## PHOTOGRAMMETRIC OFFICE REVIEW

T- 00510

1. PROJECTION AND GRIDS ALS	2. TITLE ALS	3. MANUSCRIPT NUMBERS ALS	4. MANUSCRIPT SIZE ALS
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY ALS	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA		7. PHOTO HYDRO STATIONS NA
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES X X	10. PHOTOGRAMMETRIC PLOT REPORT ALS	11. DETAIL POINTS GV
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE ALS	13. LOW-WATER LINE ALS	14. ROCKS, SHOALS, ETC. X X	15. BRIDGES X X
16. AIDS TO NAVIGATION ALS	17. LANDMARKS None within limits of compilation.	18. OTHER ALONGSHORE PHYSICAL FEATURES ALS	19. OTHER ALONGSHORE CULTURAL FEATURES ALS
PHYSICAL FEATURES			
20. WATER FEATURES X X		21. NATURAL GROUND COVER NA	22. PLANETABLE CONTOURS NA
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	26. OTHER PHYSICAL FEATURES
CULTURAL FEATURES			
27. ROADS ALS	28. BUILDINGS X X	29. RAILROADS X X	30. OTHER CULTURAL FEATURES X X
BOUNDARIES			
31. BOUNDARY LINES AN		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES ALS		34. JUNCTIONS ALS	35. LEGIBILITY OF THE MANUSCRIPT ALS
36. DISCREPANCY OVERLAY ALS	37. DESCRIPTIVE REPORT ALS	38. FIELD INSPECTION PHOTOGRAPHS X X	39. FORMS ALS
40. REVIEWER Arnold L. Shands Feb., 1975		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr. A.C. Rauck, Jr.	
41. REMARKS (See attached sheet)			
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.			
COMPILER Irene K. Perkinson Re: F. Margiotta		4/29/75 5/8/75	SUPERVISOR Albert C. Rauck, Jr. A.C. Rauck, Jr.
43. REMARKS See Form 76-36C (Field Edit) for source of field edit information.			

FIELD EDIT REPORT  
CAPE LOOKOUT TO CAPE HATTERAS, N.C.  
JOB CM 7305  
MAP TP-00510

52. Adequacy of Compilation

Compilation was adequate. The MHWL was accepted as compiled in accordance with instructions received from the Chief, Coastal Mapping Division, dated May 28, 1974. No changes were noted in the shoreline during field edit. The "wreck" at latitude  $35^{\circ}-06.3$ , longitude  $75^{\circ}-57.5$ , is approximately three-eighths of a mile offshore and covered by twenty or more feet of water. No equipment was available to the field editor to facilitate its location. The wreck was left for the hydrographer.

54. Recommendations

There are no recommendations.

55. Examination of Proof Copy  
Geographic Names

Geographic names will be the subject of a special report to be submitted during the fall of this year. Individual questions concerning geographic names on this map were ignored for this reason.

56. Landmarks and Non-Floating Aids for Navigation

There are no landmarks or non-floating aids within the compiled limits of this map. Two aids to navigation were questioned, but as they fell outside the compiled limits they were ignored in accordance with instructions received from the Chief, Photo Field Surveys Branch, Atlantic Marine Center.

57. Rocks, Reefs and Shoals

There are no rocks, reefs, or shoals, as defined, within the compiled limits of this map.

58. Photography

Photography consisted of 1:20,000 ratio prints of color infrared photographs. The prints were of poor resolution and made field identification difficult.

59. Disposition of Data

The field edit ozalid, the film ozalid, the photographs and all pertinent data were sent to the Director, Atlantic Marine Center for proper dissemination.

*Richard E. Kesselring*

Richard E. Kesselring

Surveying Technician

Photo Party 62

April 18, 1975

## REVIEW REPORT TP-00510

## SHORELINE

October 26, 1976

61. GENERAL STATEMENT:

See Summary, which is pages 6 and 6a of this Descriptive Report.

A comparison print showing the differences noted in Paragraphs 62, 63 and 65 is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with a copy of Topographic Manuscripts T-8716 S/2 and T-8715 S/2 scale 1:10,000, dated 1947 and Shoreline Manuscript T-12271, 1:10,000 scale, dated 1962. Significant differences are noted on the comparison print in blue pencil.

In the area compared, TP-00510 supersedes those surveys mentioned above which are the latest registered surveys of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangles Green Island, NC, Howard Reef, NC and Ocracoke, NC, all at 1:24,000 scale, dated 1950 and photorevised, 1970. Significant differences are noted on the comparison print in brown pencil.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Contemporary hydrographic surveys of the area were not available at the Atlantic Marine Center at the time of final review. This reviewer was informed by the

Verification Branch, AMC that these surveys do not include soundings of inshore areas above the 14 foot depth. It was decided this circumstance would not provide a good comparison. Therefore, copies were not requested from the Rockville Office and no comparison was made.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 11550, scale 1:40,000, 16th edition, dated July 17, 1976. Significant differences are noted on the comparison print in red pencil.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Instructions - OFFICE - Job CM-7304 dated, Nov. 6, 1974, except it is not a Standard Shoreline Map. (See first paragraph of Summary) This map meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted:

*A.L. Shands*

A.L. Shands  
Cartographer  
October 26, 1976

Approved for forwarding:

*Joseph W. Vonasek*  
Joseph W. Vonasek  
Chief, Photogrammetric Branch, AMC

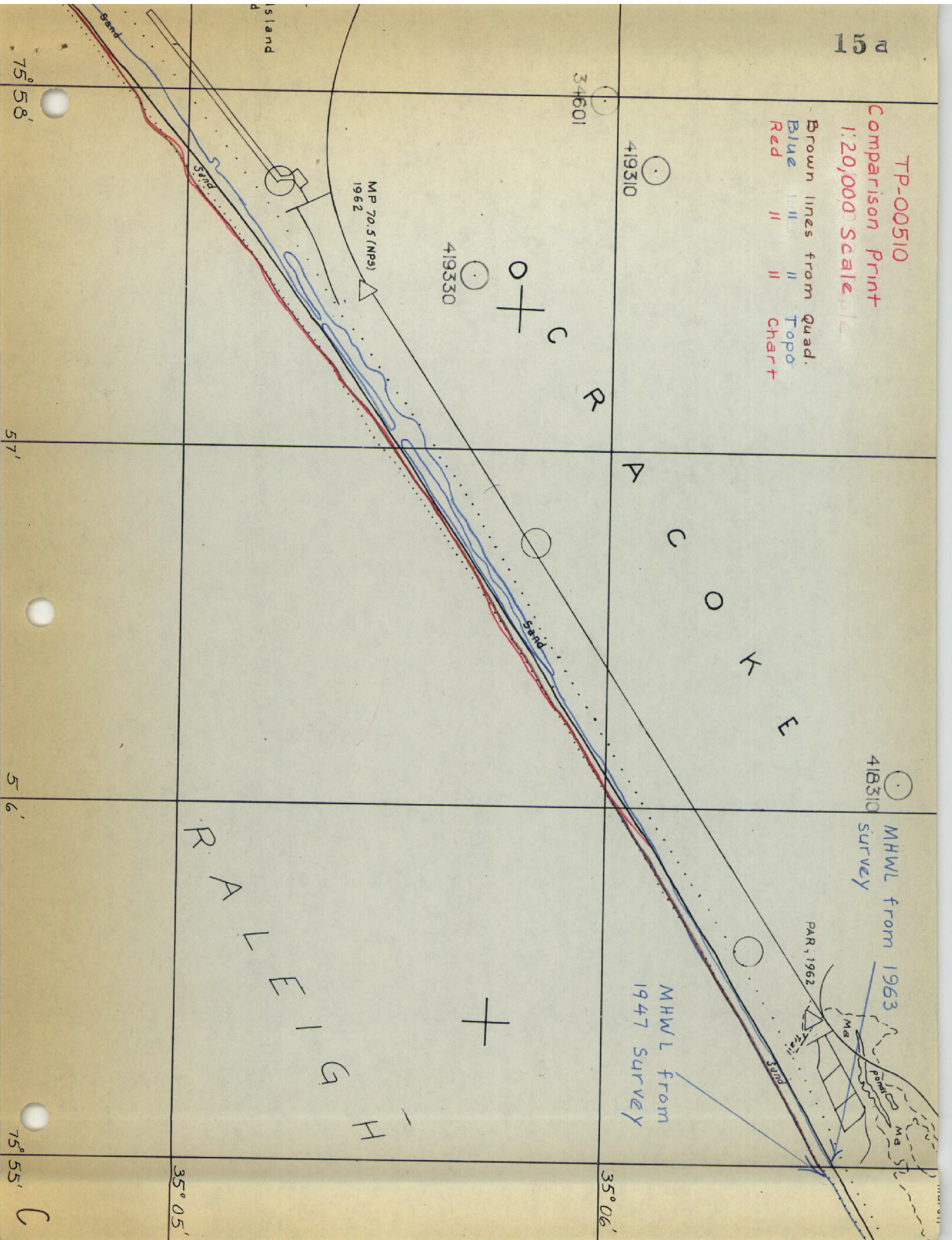
Approved:

*AKH*  
Chief, Photogrammetric Branch

*James C. Cotten*  
Chief, Coastal Mapping Div.

TP-00510  
Comparison Print  
1:20,000 Scale

Brown lines from Quad.  
Blue " " Topo-  
Red " " Chart



TP-00510  
Comparison Print  
1:20,000 Scale

15b

Blue lines from Topo  
Brown || || Quad  
Red || || chart

75°50'00"  
35°10'00"  
Y=530,000

Y=520,000 FT.

09'

08'

51'

52'

(12)  
415330  
SAND, 1935

430330

KING, 1962

416330

LAMB, 1935

NHWT on chart same as Topo

TP-00510  
Comparison Print  
1:20,000 Scale

Blue lines from Topo  
Brown lines from Quad.  
Red lines from Chart

y=510,000 FT.

y=500,000 FT.

07'

76° 00'

06'

05'

75° 59'

420310

419110

421602

420330

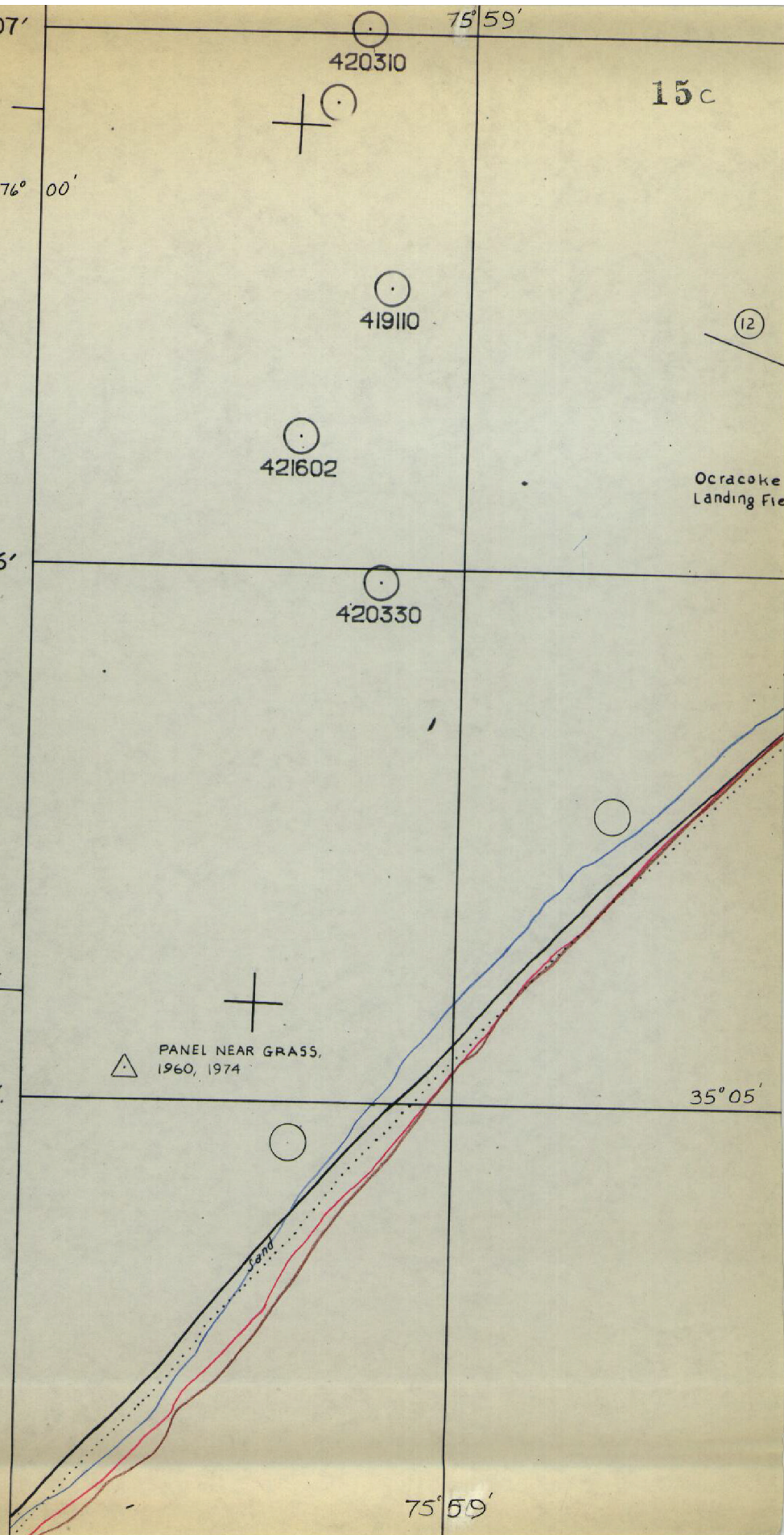
PANEL NEAR GRASS,  
1960, 1974

15c

Ocracoke  
Landing Field

35° 05'

75° 59'



### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. 1

TP SURVEY NO. 00510

## INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

[illegible]

2022